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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/656,309	09/05/2003	Robert St-Amour	40128/00701	8193	
EAVVADIID	7590 03/23/2007 I & MARCIN, LLP		EXAM	INER	
Suite 702	a wiarcin, llf		SUNG, CH	SUNG, CHRISTINE	
150 Broadway New York, NY	10038		ART UNIT	PAPER NUMBER	
New Tork, IVI	10030		2884		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE	
	NTHS	03/23/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/656,309	ST-AMOUR ET AL.	
Office Action Summary	Examiner	Art Unit	· · · · · · · · · · · · · · · · · · ·
	Christine Sung	2884	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period vortice and the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communi (D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 12 Fe	ebruary 2007.		
•	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the meri	ts is
closed in accordance with the practice under E			
Disposition of Claims			
4) Claim(s) 1-49 is/are pending in the application.			
4a) Of the above claim(s) is/are withdray			
5)⊠ Claim(s) <u>21-49</u> is/are allowed.			
6)⊠ Claim(s) <u>1-20</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) acc		Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			21(d).
11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		, , , , , ,	
1. Certified copies of the priority document	s have been received.		
2. Certified copies of the priority document	s have been received in Applicat	ion No	
3. Copies of the certified copies of the prio	rity documents have been receiv	ed in this National Stag	е
application from the International Bureau	u (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
Attachment(s)	A) []	, (DTO 412)	
1) Motice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D		
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal I		
Paper No(s)/Mail Date	6)		
S. Patent and Trademark Office			

Application/Control Number: 10/656,309 Page 2

Art Unit: 2884

Response to Amendment

1. The amendment filed on February 12, 2007 has been accepted and entered.

2. The request for Continued examination filed on February 12, 2007 has been accepted and entered.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims are directed to a judicial exception; as such, pursuant to the Interim Guidelines on Patent Eligible Subject Matter (MPEP 2106), the claims must have either physical transformation and/or a useful, concrete and tangible result. The claims fail to include transformation from one physical state to another. Although, the claims appear useful and concrete, there does not appear to be a tangible result claimed. Merely predicting the performance would not appear to be sufficient to constitute a tangible result, since the outcome of the predicting step has not been used in a disclosed practical application nor made available in such a manner that its usefulness in a disclosed practical application can be realized. As such, the subject matter of the claims is not patent eligible.

Application/Control Number: 10/656,309 Page 3

Art Unit: 2884

Allowable Subject Matter

4. Claims 21-49 are allowed.

5. Claims 1-20 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 101, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 1-20, applicant's arguments are persuasive. None of the prior art of record specifies or makes obvious a method of determining or predicting a whole printing medium, namely the step of analyzing interferometric data of the whole printing medium to determine the performance of the whole printing media. Interferometry is a known type of method of spectral data, however, none of the prior art of record specifies or makes obvious the step of applying such an analysis technique to a whole printing medium (unused ink) to predict the performance of the printing medium. Prior art references such as Bowers discloses testing ink for concentration of ink using an optical analysis system (uses ratio technique) and other references such as McFarland discloses a conventional interferometer that creates a library of reference spectral data but does not explicitly state measuring whole printing medium or unused ink. Further many prior art references test the performance of ink by printing the ink on a paper. Further, other prior art references such as Hustert (US Pre Grant Publication 20010043329 A1) discloses measuring whole ink performance by calorimetric or color strength/difference methods.

Although interferometry is a known method for analyzing articles, none of the prior art of record specifies using such a technique on whole printing media (or unused ink) to determine the performance of the ink. Further other references disclose other methods of determining ink performance, but do not disclose determining performance based on interferometric analysis.

Application/Control Number: 10/656,309 Page 4

Art Unit: 2884

Regarding claims 21-49, applicant's arguments are persuasive. None of the prior art of record specifies or makes obvious a device for evaluating a whole printing medium for use in a printing process, namely the interferometric means for generating spectral data indicative of the performance of the whole printing medium in combination with the means for predicting the performance of the whole printing medium. Again, interferometry is a known method of analyzing materials, however, none of the prior art of record specifies using such a technique to determine the performance of the whole printing media or (unused ink).

· Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Sung whose telephone number is 571-272-2448. The examiner can normally be reached on Monday- Friday 9-5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/656,309

Art Unit: 2884

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christine Sung Examiner Art Unit 2884

Page 5

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